

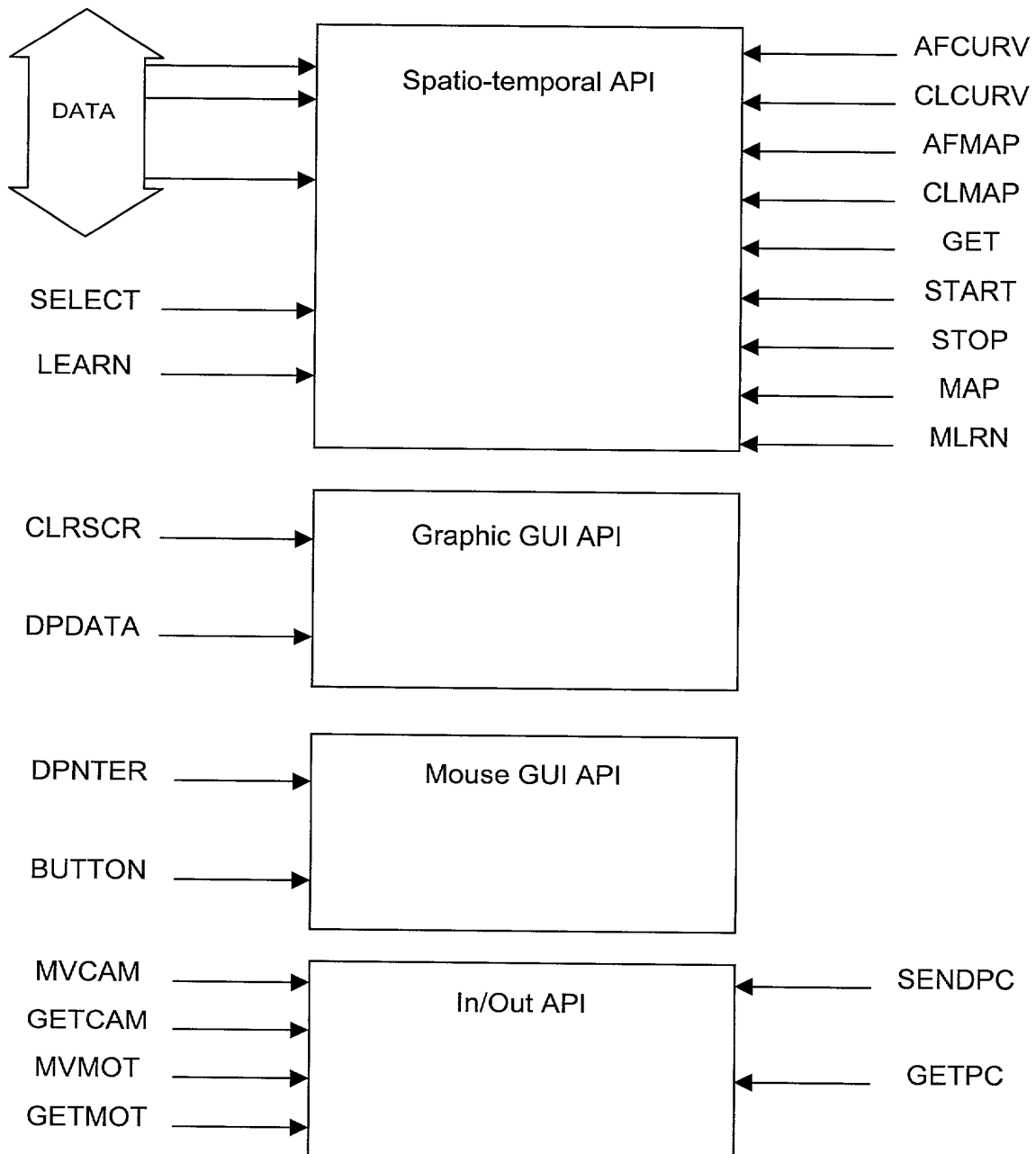
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## APPENDIX A

### API Specifications

4 sub division for GVPP :

- Spatio-temporal computation API
- Graphic GUI API
- Mouse GUI API
- Communication and input-output API



## Spatio-temporal API Bloc

This group enables all instructions to run the generic spatio-temporal computations and to get the results.

Functions :

### *START :*

Goal: Initialisation of one bloc for the classification.

Parameter : index bloc, MIN value, MAX value.

Prototype :

```
Bloc3 equ 03
MIN equ 10
MAX equ 100
```

START Bloc3 MIN MAX

```
Input - R0 : index bloc
        R1 : MIN value
        R2 : MAX value
```

Output -

### *STOP :*

Goal : end of computation.

Parameter : index bloc.

Prototype :

```
Bloc3 equ 03
```

STOP Bloc3

```
Input - R0 : index bloc
```

Output -

### *SELECT :*

Goal : Progammmation of input parameter bloc(lum, hue,motion, line orientation).

Parameter : Index bloc, type of input parameter.

Prototype :

```
Bloc3 equ 03
LUM equ 00
```

SELECT Bloc3 LUM

```
Input - R0 : Index bloc
        R1 : Input parameter
```

Output-

**GET :**

Goal : Get the result computation of one parameter.

Parameter : Index bloc, Load result parameter.

**Prototype :**

```
Bloc3      equ  03
MIN        equ  00
MAX        equ  01
RMAX       equ  02
POSRMX     equ  03
POSMOY     equ  04
NBPTS      equ  05
```

.....

**GET Bloc3 NBPTS**

Input - R0 : Index bloc

R1 : Index parameter

Output- R0 : result value of this parameter

**LEARN :**

Goal : Learn the association-context of a bloc .

Parameter : Index bloc.

**Prototype :**

```
Bloc3      equ  03
```

**LEARN Bloc3**

Input - R0 : Index bloc

Output-

**MAP :**

Goal : Put on the time coincidences fonction the result of previous learning.

Parameter : Index bloc,summ of product-terms.

**Prototype :**

```
Bloc3      equ  03
```

**MAP Bloc3 0F3 1AB 007**

Input - R0 : Index bloc

R1 : First product terms

R2 : Second product terms

R3 : .....suite

Output-

**MLRN :**

Goal : Get the result of learning.

Parameter : Index Bloc.

Prototype :

MLRN			
Input -	R0	:	Index bloc
Output-	R0	:	MIN classification
	R1	:	MAX Classification
	R2	:	First main association (product terms)
	R3	:	Second association
	R4	:	.....suite

*AFCURV* :

Goal : Histogram curve drowing of one bloc.

Parameter : Index Bloc.

Prototype :

Bloc3 equ 03

*AFCURV* Bloc3

Input - R0 : Index bloc

Output-

*CLCURV* :

Goal : Clear curve of one bloc.

Parameter : Index Bloc.

Prototype :

Bloc3 equ 03

*CLCURV* Bloc3

Input - R0 : Index bloc

Output-

*AFMAP* :

Goal : Learning Bloc drowing.

Parameter : Index Bloc.

Prototype :

Bloc3 equ 03

*AFMAP* Bloc3

Input - R0 : Index bloc

Output-

[illegible]

Prototype :

CLMAP Bloc3

Prototype :

Input -

Prototype :

Prototype :

Output-



*GETMOT :*

Goal : Get the actual position of motor.

Parameter : No.

Prototype :

GETMOT

Input -

Output- R0 : position

*SENDPC :*

Goal : Send one information to the PC.

Parameter : information pointer.

Prototype :

SENDPC

Input - R0 : information pointer

Output-

*GETPC :*

Goal : Get an information from PC.

Parameter : No.

Prototype :

GETPC

Input -

Output- R0 : information